

1992 Statewide Fleet Population Estimates: 8500 lb., GVW and under

Federal cars 643 (Note: Tactical military vehicles not included)
trucks 1,440

Source: Hawaii Federal GSA and the First Interim Report of the Federal Fleet Conversion Task Force (August, 1993)

		Statewide	Oahu	Summary of Registered Vehicles Data:					
State				Oahu	Kauai	Maui	Hawaii		
	cars	1,468	865						
	trucks (0-10,000)	1,685	1,065	pass veh	1,798	0	0	0 0.82	
	other (bus & truck)	321	165	pass trucks	81	0	0	20.80 ratio of total trucks 0-10,000	
	total	3,474	2,095	other	2,301	0	0	0	
Source:	Department of Accounting and General Services, ru			total	4,180	0	0	0	
Note:	DAGS data used								

		Statewide	Oahu	% centrally fueled	Oahu	Kauai	Maui	Hawaii	TOTAL
County Gov	cars	1,507	800	50% pass veh	980	218	481	167	1,846
	light trucks	4,514	1,082	50% pass trucks	52	67	56	42	217
	other	760	2,617	other	3,467	131	387	733	4,718 (Other = (county+fire+police))
Source:	Summary of Registered Vehicles, Run Date 9/5/92			total	4,499	416	924	942	6,781
	trucks adjusted by ratio of light trucks to pass trucks from state								

		Statewide	Oahu	% centrally fueled	Oahu	Kauai	Maui	Hawaii	TOTAL
Private	cars	19,232		(Note: Statewide estimate, fleets of all cars	cars	13,362	69%	43%	270 # of fleets (sc
Fleets	trucks	33,516		no central refueling capability restrictio	trucks	24,856	74%	43%	116 # of locations (from DOH U

Source: Private fleet size estimates from Automotive Fleet Fact Book, 1992, Bobit Publishing Company
95% of trucks in class I-V assumed to be under 8500 lb. based on USGSA and MVMA data

		Statewide	Oahu
Rental Car	cars	38,491	26,742
	trucks	0	0

Source: Figures for 1992: Hawaii Automobile Dealers Association Yearbook, 1994

Private Indiv cars 69,832
(purch new) trucks 2,450

Source: Figures for 1992: Hawaii Automobile Dealers Association Yearbook, 1994; retail sales - fleet & government sales above

Fleet Turnover Rate				
Federal	cars	20%	Notes:	Average vehicle life assumed to be 9 years. Source: City and County of Honolulu (90%) and DAGS (93%)
	trucks	17%		
Source: Hawaii GSA				
State	cars	13%		
	trucks	13%		
Source: Assumed equal to City and County of Honolulu rate				
Local Gov	cars	13%		
	trucks	13%		
Source: City and County of Honolulu Dept. of Public Works, Dept. of Parks and Recreation, and Board of Water				
Private fleet	cars	40%		
	trucks	20%		
Source: Assumed equal to national rate (Reference 21)				
Rental Car	cars	100%		
	trucks	100%		
Source: Acurex Estimate				
Private indiv:	cars	40%		
	trucks	20%		
Source: Calculated based on new vehicle registrations and the above fleet turnover rates				

Fleet Growth Rate			
User entered Default rate:			
Federal	cars	2.02%	2.02%
	trucks	2.02%	2.02%
User entered Default rate:			
State	cars	2.02%	2.02%
	trucks	2.02%	2.02%
User entered Default rate:			
Local Gov	cars	2.02%	2.02%
	trucks	2.02%	2.02%
User entered Default rate:			
Private fleet	cars	2.02%	2.02%
	trucks	2.02%	2.02%
User entered Default rate:			
Rental Cars	cars	2.02%	2.02%
	trucks	2.02%	2.02%

Percentage of AFVs leaving federal government fleet Default: 90%
 assumed to be resold and retained in the islands: User Entered: 90%

Age of vehicle (yrs) at sale: 5
 Average vehicle life (yrs): 9

Federal Fleet Acquisition of Light Duty Alternative Fuel Vehicles															
Year	autos	light trucks	new autos	new light trucks	EPACT %	AFV cars (new)	AFV trucks (new)	AFV cars cumulative	AFV trucks cumulative	Alcohol		EV		LPG	
										new cars	new trucks	new cars	new trucks	new cars	new trucks
1992	643	1,440													
1993	656	1,469	131	250	17%	5	0			5	0	0	0	0	0
1994	669	1,499	134	255	24%	6	0			6	0	0	0	0	0
1995	683	1,529	137	260	32%	7	0			4	0	1	0	2	0
1996	696	1,560	139	265	25%	35	66			21	31	4	5	10	30
1997	710	1,591	142	270	33%	47	89			28	41	5	8	14	40
1998	725	1,623	145	276	50%	72	138			43	63	9	13	21	62
1999	739	1,656	148	281	75%	111	211			65	96	15	22	32	94
2000	754	1,689	151	287	75%	113	215			65	96	16	24	32	95
2001	769	1,723	154	293	75%	115	220			65	97	18	26	32	96
2002	785	1,758	157	299	75%	118	224			66	98	19	28	33	98
2003	801	1,793	160	305	75%	120	229			67	99	20	30	33	99
2004	817	1,830	163	311	90%	147	280			81	120	26	39	40	121
2005	833	1,866	167	317	90%	150	286			83	124	28	41	40	120
2006	850	1,904	170	324	90%	153	291			84	126	29	44	40	121
2007	867	1,942	173	330	90%	156	297			84	127	31	47	41	123
2008	885	1,982	177	337	90%	159	303			85	129	33	50	41	125
2009	903	2,021	181	344	90%	162	309			86	130	35	53	42	126
2010	921	2,062	184	351	90%	166	316			87	132	37	56	42	128
2011	939	2,104	188	358	90%	169	322			88	134	38	58	43	130
2012	958	2,146	192	365	90%	172	328			90	136	39	60	44	132
2013	978	2,189	196	372	90%	176	335			91	138	41	62	44	135
2014	997	2,234	199	380	90%	180	342			92	141	42	64	45	137
2015	1,017	2,279	203	387	90%	183	349			94	143	44	67	46	139
2016	1,038	2,324	208	395	90%	187	356			96	146	45	68	47	142

Cumulative AFVs in federal fleet	
cumulative	
Alcohol	EV
5	0
11	0
15	1
67	9
137	22
238	44
392	81
549	121
659	156
754	190
814	219
855	247
901	275
948	305
995	336
1,043	368
1,059	390
1,070	415
1,082	437
1,096	459
1,112	479
1,129	497
1,147	514
1,167	531

Percentage c assumed to t		Federal fleet AFVs					
Federal	deral fleet	Used vehicles sold to local purchasers			Vehicles permanently retired		
Year		annually			annually		
		Alcohol	EV	LPG	Alcohol	EV	LPG
1992	LPG						
1993	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1995	2	0	0	0	0	0	0
1996	42	0	0	0	0	0	0
1997	96	0	0	0	0	0	0
1998	178	5	0	0	0	0	0
1999	304	5	0	0	0	0	0
2000	429	4	1	2	0	0	0
2001	517	47	8	36	0	0	0
2002	594	62	12	48	5	0	0
2003	644	95	20	74	5	0	0
2004	679	144	33	113	4	1	2
2005	712	145	37	114	47	8	36
2006	745	146	39	116	62	12	48
2007	778	148	42	118	95	20	74
2008	811	149	45	119	144	33	113
2009	818	181	59	145	145	37	114
2010	829	186	62	144	146	39	116
2011	840	189	66	145	148	42	118
2012	852	191	70	147	149	45	119
2013	865	193	74	149	181	59	145
2014	879	195	79	151	186	62	144
2015	894	196	84	153	189	66	145
2016	910	200	87	156	191	70	147

net additional AFVs to gen. public
annually

Alcohol	EV	LPG	total
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
5	0	0	5
5	0	0	5
4	1	2	6
47	8	36	91
58	12	48	118
90	20	74	184
140	32	111	284
98	29	78	205
84	28	67	179
52	23	43	118
5	12	6	24
36	22	31	89
40	23	28	90
41	24	28	92
41	25	28	94
12	16	4	32
8	17	8	33
8	18	7	33
9	17	8	34

non-AFVs				NEW vehicles
Non-AFVs Sold to local purchasers		Non-AFVs Permanently retired		
annually		annually		
	LDVs		LDVs	
	382		212	381
	388		216	389
	395		219	396
	385		214	404
	368		205	413
	340		189	421
	291		162	429
	242		135	438
	209		116	447
	181		100	456
	165		92	465
	156		87	474
	146		81	484
	136		76	494
	126		70	504
	116		64	514
	118		66	524
	121		67	535
	123		68	546
	125		70	557
	128		71	568
	131		73	579
	133		74	591
	136		76	603

Percentage c		NEW									
assumed to t		AFVs									
Federal											
Year		Additional cost for AFV purchases			Additional cost for fuel			Total Additiona	Total	Total	0
		Alcohol	EV	LPG	Alcohol	EV	LPG	All	voluntary	EPACT	0
1992								Fuels <th>cost</th> <th>Cost</th> <th>0</th>	cost	Cost	0
1993	5								0	0	0
1994	6									0	0
1995	7	\$2,147	\$13,298	\$3,085	\$4,798	(\$366)	\$1,000	\$21,815	\$6,422	\$24,695	\$0
1996	101	\$25,036	\$163,685	\$57,007	\$20,634	(\$5,084)	\$20,008	\$256,250	\$6,448	\$259,089	\$0
1997	136	\$31,940	\$223,072	\$72,017	\$41,466	(\$11,934)	\$45,044	\$369,666	\$7,004	\$372,478	\$0
1998	210	\$46,642	\$346,389	\$103,969	\$71,353	(\$23,363)	\$82,957	\$581,305	\$7,246	\$584,239	\$0
1999	322	\$67,226	\$527,903	\$147,858	\$116,393	(\$42,247)	\$139,799	\$889,706	\$9,165	\$892,789	\$0
2000	329	\$64,397	\$528,634	\$139,545	\$160,560	(\$62,189)	\$194,372	\$960,922	\$15,306	\$964,150	\$0
2001	335	\$61,818	\$524,766	\$136,450	\$190,061	(\$78,959)	\$231,091	\$1,003,409	\$24,104	\$1,009,441	\$0
2002	342	\$59,152	\$517,183	\$133,174	\$214,166	(\$94,759)	\$261,450	\$1,031,213	\$34,317	\$1,040,846	\$0
2003	349	\$56,398	\$505,369	\$129,718	\$227,662	(\$107,375)	\$279,091	\$1,034,464	\$44,025	\$1,049,416	\$0
2004	427	\$64,272	\$586,509	\$151,294	\$235,386	(\$119,506)	\$290,004	\$1,143,686	\$51,604	\$1,166,391	\$0
2005	436	\$62,135	\$552,078	\$143,504	\$213,046	(\$132,155)	\$301,496	\$1,077,969	\$54,794	\$1,106,242	\$0
2006	444	\$58,654	\$542,241	\$142,205	\$222,317	(\$145,156)	\$312,884	\$1,074,492	\$58,207	\$1,109,681	\$0
2007	453	\$55,065	\$529,092	\$140,792	\$231,568	(\$158,518)	\$324,166	\$1,067,100	\$59,889	\$1,109,048	\$0
2008	462	\$51,368	\$512,262	\$139,261	\$240,796	(\$172,249)	\$335,335	\$1,055,405	\$60,316	\$1,103,942	\$0
2009	472	\$47,566	\$491,322	\$137,611	\$242,332	(\$181,314)	\$335,394	\$1,025,346	\$59,866	\$1,081,653	\$0
2010	481	\$43,661	\$465,819	\$135,840	\$242,865	(\$190,936)	\$336,823	\$990,411	\$58,770	\$1,054,256	\$0
2011	491	\$39,960	\$461,611	\$138,240	\$243,654	(\$199,795)	\$338,524	\$982,235	\$58,972	\$1,053,429	\$0
2012	501	\$36,116	\$456,811	\$140,664	\$244,713	(\$207,848)	\$340,516	\$974,856	\$59,153	\$1,053,198	\$0
2013	511	\$32,128	\$451,320	\$143,115	\$246,055	(\$215,039)	\$342,817	\$968,268	\$59,347	\$1,053,541	\$0
2014	521	\$27,993	\$445,153	\$145,588	\$247,692	(\$221,321)	\$345,445	\$962,557	\$59,570	\$1,054,530	\$0
2015	532	\$23,690	\$440,897	\$147,707	\$251,772	(\$228,915)	\$351,272	\$962,734	\$60,058	\$1,062,021	\$0
2016	542	\$24,167	\$449,782	\$150,684	\$256,089	(\$236,161)	\$357,383	\$977,778	\$60,608	\$1,084,445	\$0

Percentage of AFVs leaving state government fleets					Default: 90%		Age of vehicle (yrs) at sale: 8														
assumed to be resold and retained in the islands: User Entered:					90%		Average vehicle life (yrs): 9														
State					State Fleet Acquisition of Light Duty Alternative Fuel Vehicles													Cumulative AFVs in s			
Year	autos	light trucks	new autos	ew light truck	EPACT	State fleet	AFV cars	AFV trucks	AFV cars	AFV trucks	Alcohol		EV		LPG		cumulative				
1992	1,468	1,685			%	mandate	(new)	(new)	cumulative	cumulative	cars	trucks	cars	trucks	cars	trucks	Alcohol	EV			
1993	1,498	1,719	187	215	0%	0%	2	0			2	0	0	0	0	0	2	0			
1994	1,528	1,754	191	219	0%	0%	0	0			0	0	0	0	0	0	2	0			
1995	1,559	1,789	195	224	0%	0%	0	0			0	0	0	0	0	0	2	0			
1996	1,590	1,825	199	228	10%	0%	3	2			2	1	0	0	1	1	4	0			
1997	1,622	1,862	203	233	15%	0%	5	3			3	1	1	0	1	1	8	1			
1998	1,655	1,899	207	237	25%	25%	52	59			31	27	6	6	15	27	66	13			
1999	1,688	1,938	211	242	50%	25%	53	61			31	27	7	6	15	27	124	27			
2000	1,722	1,977	215	247	75%	25%	54	62			31	28	8	7	15	27	182	41			
2001	1,757	2,016	220	252	75%	25%	55	63			31	28	8	7	15	28	239	57			
2002	1,792	2,057	224	257	75%	25%	56	64			31	28	9	8	16	28	298	74			
2003	1,828	2,099	229	262	75%	25%	57	66			32	28	10	9	16	28	359	93			
2004	1,865	2,141	233	268	90%	25%	58	67			32	29	10	9	16	29	416	112			
2005	1,903	2,184	238	273	90%	25%	59	68			33	30	11	10	16	29	475	132			
2006	1,941	2,228	243	278	90%	25%	61	70			33	30	12	11	16	29	480	142			
2007	1,980	2,273	248	284	90%	25%	62	71			33	30	12	11	16	29	486	152			
2008	2,020	2,319	253	290	90%	25%	63	72			34	31	13	12	16	30	492	162			
2009	2,061	2,365	258	296	90%	25%	64	74			34	31	14	13	17	30	498	173			
2010	2,102	2,413	263	302	90%	25%	66	75			34	31	15	13	17	31	504	184			
2011	2,145	2,462	268	308	90%	25%	67	77			35	32	15	14	17	31	511	195			
2012	2,188	2,511	273	314	90%	25%	68	78			36	33	16	14	17	32	519	205			
2013	2,232	2,562	279	320	90%	25%	70	80			36	33	16	15	18	32	525	215			
2014	2,277	2,614	285	327	90%	25%	71	82			37	34	17	15	18	33	532	225			
2015	2,323	2,666	290	333	90%	25%	73	83			37	34	17	16	18	33	540	234			
2016	2,370	2,720	296	340	90%	25%	74	85			38	35	18	16	18	34	548	243			

Percentage c
assumed to t

State	State fleet	State fleet AFVs					
		Used vehicles sold to local purchasers			Vehicles permanently retired		
		annually			annually		
Year		Alcohol	EV	LPG	Alcohol	EV	LPG
1992	LPG						
1993	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0
1996	2	0	0	0	0	0	0
1997	5	0	0	0	0	0	0
1998	46	0	0	0	0	0	0
1999	88	0	0	0	0	0	0
2000	130	0	0	0	0	0	0
2001	173	2	0	0	0	0	0
2002	217	0	0	0	2	0	0
2003	261	0	0	0	0	0	0
2004	304	2	0	2	0	0	0
2005	346	4	1	3	2	0	2
2006	349	52	11	37	4	1	3
2007	353	52	12	38	52	11	37
2008	357	53	13	38	52	12	38
2009	360	53	14	39	53	13	38
2010	364	54	15	39	53	14	39
2011	368	54	16	40	54	15	39
2012	372	55	18	40	54	16	40
2013	377	56	19	40	55	18	40
2014	383	57	20	40	56	19	40
2015	388	58	21	41	57	20	40
2016	395	58	22	41	58	21	41

net additional AFVs to gen. public

annually			total	non-AFVs sold
Alcohol	EV	LPG		
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
2	0	0	2	0
0	0	0	0	0
0	0	0	0	0
2	0	2	4	0
1	0	1	3	0
48	10	35	93	0
0	1	0	2	0
0	1	0	2	0
1	1	1	2	0
1	1	1	2	0
0	1	1	2	0
2	1	0	3	0
1	1	1	2	0
1	1	1	2	0
1	1	1	2	0

non-AFVs			State fleet
Non-AFVs Sold to local purchasers			Non-AFVs Permanently retired
annually		annually	
	LDVs		LDVs
	362		321
	369		328
	376		335
	383		341
	390		347
	386		343
	381		339
	376		335
	372		330
	367		326
	362		321
	357		317
	353		313
	360		320
	367		326
	374		333
	382		339
	390		346
	397		353
	405		360
	414		368
	422		375
	430		383
	439		390

NEW
State fleet vehicles

Percentage cNEW
assumed to iState AFVs

State		Additional cost for AFV purchases			Additional cost for fuel			Total Additiona	Total	Total	Total	To be used
Year		Alcohol	EV	LPG	Alcohol	EV	LPG	All	voluntary	EPACT	State-	in
1992								Fuels	cost	Cost	Imposed	cost
1993	2								0	0	Costs	chart
1994	0											
1995	0	\$6	\$36	\$0	\$490	(\$1)	\$4	\$529	\$676	\$0	\$0	\$0
1996	5	\$1,322	\$8,644	\$0	\$1,251	(\$251)	\$848	\$10,493	\$829	\$10,081	\$0	\$0
1997	8	\$2,016	\$14,078	\$11	\$2,498	(\$684)	\$2,154	\$18,058	\$1,403	\$17,707	\$0	\$0
1998	111	\$25,396	\$188,608	\$2,244	\$19,719	(\$6,964)	\$21,380	\$224,986	\$2,974	\$38,345	\$218,880	\$186,641
1999	113	\$24,397	\$191,578	\$3,304	\$36,705	(\$13,832)	\$40,455	\$258,209	\$6,440	\$89,008	\$251,148	\$169,201
2000	116	\$23,364	\$191,795	\$45,546	\$53,200	(\$21,213)	\$59,106	\$328,434	\$12,586	\$146,553	\$324,796	\$181,881
2001	118	\$22,424	\$190,358	\$44,423	\$68,854	(\$28,932)	\$77,467	\$352,170	\$21,013	\$166,176	\$349,163	\$185,993
2002	120	\$21,453	\$187,572	\$43,268	\$84,750	(\$37,004)	\$95,520	\$374,106	\$31,758	\$183,828	\$371,144	\$190,278
2003	123	\$20,450	\$183,250	\$42,177	\$100,284	(\$45,443)	\$113,244	\$393,512	\$42,507	\$191,073	\$390,601	\$202,440
2004	125	\$19,417	\$177,188	\$41,026	\$114,691	(\$54,039)	\$129,868	\$408,734	\$51,618	\$197,045	\$407,162	\$211,689
2005	128	\$18,754	\$166,632	\$39,815	\$112,239	(\$63,209)	\$146,435	\$401,912	\$56,723	\$190,646	\$402,284	\$211,266
2006	130	\$17,700	\$163,630	\$39,441	\$112,628	(\$67,544)	\$146,752	\$394,906	\$62,200	\$194,373	\$397,801	\$200,533
2007	133	\$16,613	\$159,628	\$38,155	\$113,069	(\$71,800)	\$147,077	\$386,129	\$65,925	\$192,110	\$391,470	\$194,019
2008	136	\$15,494	\$154,515	\$37,763	\$113,567	(\$75,975)	\$147,401	\$377,272	\$68,367	\$185,375	\$384,979	\$191,896
2009	138	\$14,344	\$148,164	\$37,340	\$114,050	(\$80,271)	\$147,675	\$366,959	\$69,540	\$178,133	\$376,981	\$188,825
2010	141	\$13,163	\$140,439	\$36,884	\$114,519	(\$84,688)	\$147,897	\$355,051	\$69,500	\$170,355	\$367,331	\$184,695
2011	144	\$12,047	\$139,160	\$37,328	\$115,088	(\$88,852)	\$148,191	\$350,915	\$70,204	\$166,342	\$365,394	\$184,573
2012	147	\$10,887	\$137,703	\$37,761	\$115,762	(\$92,744)	\$148,562	\$347,044	\$70,426	\$162,347	\$363,655	\$184,697
2013	150	\$9,684	\$136,037	\$38,426	\$116,252	(\$96,485)	\$149,421	\$343,651	\$70,395	\$158,641	\$362,327	\$185,010
2014	153	\$8,437	\$134,167	\$39,097	\$116,813	(\$100,035)	\$150,349	\$340,390	\$70,234	\$155,072	\$361,075	\$185,318
2015	156	\$7,139	\$132,862	\$39,776	\$118,457	(\$104,371)	\$152,615	\$339,339	\$70,368	\$152,600	\$362,170	\$186,739
2016	159	\$7,283	\$135,540	\$40,460	\$120,271	(\$108,361)	\$155,064	\$342,974	\$71,010	\$152,126	\$367,924	\$190,848

Percentage of AFVs leaving county government fleet					Default: 90%		Age of vehicle (yrs) at sale: 8			text	text	text	text	text	text
assumed to be resold and retained in the islands: User Entered:					90%		Average vehicle life (yrs): 9			text	text	text	text	text	text
County Gov Fleet Acquisition of Light Duty Alternative Fuel Vehicles															
Year	autos	light trucks	new autos	new light trucks	AFVs as % of new veh	AFV cars (new)	AFV trucks (new)	AFV cars cumulative	AFV trucks cumulative	Alcohol		EV		LPG	
1992	1,507	4,514								cars	trucks	cars	trucks	cars	trucks
1993	1,538	4,605	192	576	0%	0	3			0	0	0	0	0	3
1994	1,569	4,698	196	587	0%	0	0			0	0	0	0	0	0
1995	1,600	4,793	200	599	0%	0	0			0	0	0	0	0	0
1996	1,632	4,889	204	611	0%	0	0			0	0	0	0	0	0
1997	1,665	4,988	208	623	0%	0	1			0	0	0	0	0	0
1998	1,699	5,088	212	636	0%	0	2			0	1	0	0	0	1
1999	1,733	5,191	217	649	3%	12	16			7	7	2	2	3	7
2000	1,768	5,295	221	662	3%	12	16			7	7	2	2	3	7
2001	1,804	5,402	225	675	3%	12	16			7	7	2	2	3	7
2002	1,840	5,511	230	689	5%	18	25			10	11	3	3	5	11
2003	1,877	5,622	235	703	6%	25	34			14	15	4	4	7	15
2004	1,915	5,735	239	717	8%	32	43			17	18	6	6	9	19
2005	1,954	5,851	244	731	9%	39	53			21	23	7	8	10	22
2006	1,993	5,969	249	746	11%	46	63			25	27	9	9	12	26
2007	2,033	6,089	254	761	11%	47	64			26	27	9	10	12	26
2008	2,074	6,212	259	776	11%	48	65			26	28	10	11	12	27
2009	2,116	6,337	264	792	11%	49	66			26	28	11	11	13	27
2010	2,158	6,465	270	808	11%	50	68			26	28	11	12	13	27
2011	2,202	6,595	275	824	11%	51	69			27	29	12	12	13	28
2012	2,246	6,728	281	841	11%	52	71			27	29	12	13	13	28
2013	2,292	6,863	286	858	11%	53	72			28	30	12	13	13	29
2014	2,338	7,002	292	875	11%	54	73			28	30	13	14	14	29
2015	2,385	7,143	298	893	11%	55	75			28	31	13	14	14	30
2016	2,433	7,287	304	911	11%	57	76			29	31	13	15	14	30

Cumulative light duty AFVs	
cumulative	
Alcohol	EV
0	0
0	0
0	0
0	0
0	0
0	0
1	0
15	3
29	7
43	11
64	17
92	25
128	37
172	52
224	70
263	86
302	103
342	121
376	139
403	154
423	167
436	178
442	186
448	194
455	202

Percentage c assumed to t		County fleet AFVs					
County Gov in county file		Used vehicles sold to local purchasers			Vehicles permanently retired		
Year		annually			annually		
	LPG	Alcohol	EV	LPG	Alcohol	EV	LPG
1992							
1993	3	0	0	0	0	0	0
1994	3	0	0	0	0	0	0
1995	3	0	0	0	0	0	0
1996	3	0	0	0	0	0	0
1997	3	0	0	0	0	0	0
1998	4	0	0	0	0	0	0
1999	14	0	0	0	0	0	0
2000	25	0	0	0	0	0	0
2001	32	0	0	3	0	0	0
2002	48	0	0	0	0	0	3
2003	70	0	0	0	0	0	0
2004	97	0	0	0	0	0	0
2005	129	0	0	0	0	0	0
2006	166	1	0	1	0	0	0
2007	195	12	3	9	1	0	1
2008	224	12	3	9	12	3	9
2009	253	13	3	9	12	3	9
2010	277	19	5	14	13	3	9
2011	296	26	8	19	19	5	14
2012	311	32	10	25	26	8	19
2013	321	40	13	29	32	10	25
2014	326	47	16	34	40	13	29
2015	331	48	17	35	47	16	34
2016	336	48	19	35	48	17	35

net additional AFVs to gen. public

annually			total
Alcohol	EV	LPG	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	2	2
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	1
11	3	8	23
0	0	0	0
0	0	0	0
6	2	5	13
7	2	5	14
7	3	5	15
8	3	5	15
7	3	5	16
1	1	0	2
0	1	0	2

3 0

Vehicles in fleets under EPACT requirements					
EPACT %	# of new vehicles		Annual AFVs req'd	Annual credits	Cumulative credits
	cars	trucks			
0%	51	69	0	3	3
0%	52	70	0	3	6
0%	53	72	0	6	12
0%	54	73	0	9	21
0%	55	75	0	12	33
0%	56	76	0	15	48
20%	58	78	27	0	48
20%	59	79	28	0	48
20%	60	81	28	0	48
30%	61	83	43	0	48
40%	62	84	59	0	48
50%	64	86	75	0	48
60%	65	88	91	0	48
70%	66	89	109	0	48
70%	67	91	111	0	48
70%	69	93	113	0	48
70%	70	95	116	0	48
70%	72	97	118	0	48
70%	73	99	120	0	48
70%	75	101	123	0	48
70%	76	103	125	0	48
70%	78	105	128	0	48
70%	79	107	130	0	48
70%	81	109	133	0	48

NEW County fleet vehicles
768
783
799
815
832
848
865
883
901
919
937
956
976
995
1,015
1,036
1,057
1,078
1,100
1,122
1,144
1,167
1,191
1,215

Percentage c assumed to t	NEW County	County Gov	AFVs	non-AFVs sold	non-AFVs										Total Additional All Fuels	Total voluntary cost				
Year					Non-AFVs Sold to local purchasers				Non-AFVs Permanently retired				Additional cost for AFV purchases			Additional cost for fuel				
					annually		LDVs		annually		LDVs		Alcohol	EV	LPG	Alcohol	EV	LPG		
1992																				
1993	3			691			691				614									
1994	0			705			705				626									
1995	0			719			719				639		\$11	\$68	\$28	\$7	(\$2)	\$1,468	\$1,569	\$121
1996	0			733			733				652		\$46	\$302	\$115	\$36	(\$11)	\$1,469	\$1,912	\$536
1997	1			748			748				665		\$156	\$1,091	\$386	\$139	(\$44)	\$1,590	\$3,162	\$1,910
1998	2			763			763				678		\$435	\$3,227	\$1,062	\$434	(\$151)	\$1,966	\$6,537	\$5,577
1999	27			775			775				689		\$5,765	\$45,272	\$12,011	\$4,505	(\$1,789)	\$6,631	\$66,630	\$13,459
2000	28			788			788				700		\$5,522	\$45,327	\$11,334	\$8,480	(\$3,555)	\$11,208	\$72,793	\$27,077
2001	28			801			801				712		\$5,300	\$44,990	\$11,081	\$12,376	(\$5,401)	\$14,374	\$77,420	\$46,491
2002	43			812			812				722		\$7,606	\$66,501	\$16,221	\$18,192	(\$8,335)	\$21,159	\$113,738	\$69,008
2003	59			823			823				731		\$9,668	\$86,631	\$21,065	\$25,863	(\$12,462)	\$30,147	\$151,244	\$90,592
2004	75			831			831				739		\$11,475	\$104,714	\$25,589	\$35,314	(\$17,889)	\$41,267	\$188,995	\$108,041
2005	91			838			838				745		\$13,304	\$118,207	\$29,111	\$40,733	(\$24,805)	\$54,512	\$217,757	\$117,079
2006	109			844			844				750		\$14,650	\$135,432	\$33,651	\$52,449	(\$33,219)	\$69,783	\$258,096	\$127,194
2007	111			853			853				758		\$13,751	\$132,129	\$33,313	\$61,139	(\$40,639)	\$81,116	\$267,058	\$134,517
2008	113			861			861				766		\$12,826	\$127,907	\$32,947	\$69,789	(\$48,335)	\$92,405	\$274,713	\$139,505
2009	116			870			870				774		\$11,875	\$122,659	\$32,552	\$78,379	(\$56,368)	\$103,631	\$280,853	\$142,178
2010	118			881			881				783		\$10,898	\$116,273	\$32,129	\$85,304	(\$63,826)	\$112,632	\$282,511	\$142,490
2011	120			894			894				794		\$9,974	\$115,217	\$32,695	\$90,664	(\$70,298)	\$119,500	\$287,777	\$144,289
2012	123			908			908				807		\$9,014	\$114,013	\$33,267	\$94,471	(\$75,661)	\$124,232	\$290,322	\$145,090
2013	125			925			925				822		\$8,018	\$112,636	\$33,845	\$96,530	(\$79,878)	\$127,124	\$290,258	\$145,286
2014	128			943			943				839		\$6,986	\$111,091	\$34,428	\$96,996	(\$82,820)	\$127,919	\$287,614	\$145,207
2015	130			962			962				855		\$5,911	\$110,017	\$34,926	\$98,362	(\$86,414)	\$129,852	\$286,743	\$145,657
2016	133			982			982				873		\$6,030	\$112,234	\$35,630	\$99,868	(\$89,721)	\$131,941	\$289,952	\$146,801

Percentage c assumed to b			
County Gov			
Year	Total	Total	To be used
1992	EPACT	State-	in
1993	Cost	Imposed	cost
1994	0	Costs	chart
1995	\$0	\$0	\$0
1996	\$0	\$0	\$0
1997	\$0	\$0	\$0
1998	\$0	\$0	\$0
1999	\$64,404	\$0	\$0
2000	\$70,600	\$0	\$0
2001	\$76,599	\$0	\$0
2002	\$112,929	\$0	\$0
2003	\$150,460	\$0	\$0
2004	\$188,276	\$0	\$0
2005	\$217,265	\$0	\$0
2006	\$258,096	\$0	\$0
2007	\$267,653	\$0	\$0
2008	\$275,885	\$0	\$0
2009	\$282,589	\$0	\$0
2010	\$285,079	\$0	\$0
2011	\$291,435	\$0	\$0
2012	\$295,311	\$0	\$0
2013	\$296,804	\$0	\$0
2014	\$295,940	\$0	\$0
2015	\$296,886	\$0	\$0
2016	\$301,890	\$0	\$0

Percentage of AFVs leaving private fleets					Default: 90%		Age of vehicle (yrs) at sale: 3										
assumed to be resold and retained in the islands: User Entered: 90%							Average vehicle life (yrs): 9										
Private Fleet Acquisition of Light Duty Alternative Fuel Vehicles										Private Fleet Acquisition of Light Duty Alternative Fuel Vehicles						Cumulative AFVs in private fleets	
										Alcohol		EV		LPG			
Year	autos	light trucks	new autos	new light trucks	AFVs as % of New Vehicles	AFV cars (new)	AFV trucks (new)	AFV cars cumulative	AFV trucks cumulative	cars	trucks	cars	trucks	cars	trucks		
1992	19,232	33,516															
1993	19,620	34,191	7,848	6,838	0%	0	0	0	134	0	0	0	0	0	0		
1994	20,015	34,880	8,006	6,976	0%	5	6	5	140	0	0	5	6	0	0		
1995	20,419	35,583	8,167	7,117	0%	0	0			0	0	0	0	0	0		
1996	20,830	36,300	8,332	7,260	3%	208	182			126	86	23	16	59	80		
1997	21,250	37,032	8,500	7,406	5%	425	370			254	173	52	35	120	163		
1998	21,678	37,778	8,671	7,556	8%	650	567			383	261	86	59	181	247		
1999	22,115	38,540	8,846	7,708	10%	885	771			513	350	128	87	244	333		
2000	22,561	39,316	9,024	7,863	14%	1,241	1,081			707	484	195	133	339	464		
2001	23,015	40,109	9,206	8,022	18%	1,611	1,404			908	622	266	182	437	599		
2002	23,479	40,917	9,392	8,183	21%	1,996	1,739			1,112	763	347	238	537	738		
2003	23,952	41,741	9,581	8,348	25%	2,395	2,087			1,314	903	439	302	642	882		
2004	24,435	42,583	9,774	8,517	31%	3,054	2,661			1,663	1,144	575	396	816	1,122		
2005	24,928	43,441	9,971	8,688	38%	3,739	3,258			2,048	1,419	727	504	964	1,336		
2006	25,430	44,316	10,172	8,863	44%	4,450	3,878			2,405	1,667	903	626	1,142	1,584		
2007	25,942	45,209	10,377	9,042	50%	5,188	4,521			2,791	1,936	1,070	742	1,328	1,842		
2008	26,465	46,120	10,586	9,224	50%	5,293	4,612			2,810	1,953	1,137	790	1,345	1,869		
2009	26,998	47,050	10,799	9,410	50%	5,400	4,705			2,845	1,979	1,190	828	1,365	1,898		
2010	27,543	47,998	11,017	9,600	50%	5,509	4,800			2,855	1,988	1,268	883	1,385	1,929		
2011	28,098	48,965	11,239	9,793	50%	5,620	4,897			2,929	2,037	1,269	882	1,422	1,978		
2012	28,664	49,952	11,466	9,990	50%	5,733	4,995			2,977	2,071	1,310	911	1,446	2,013		
2013	29,241	50,959	11,697	10,192	50%	5,848	5,096			3,025	2,106	1,352	941	1,471	2,048		
2014	29,831	51,986	11,932	10,397	50%	5,966	5,199			3,074	2,142	1,397	973	1,496	2,084		
2015	30,432	53,033	12,173	10,607	50%	6,086	5,303			3,119	2,176	1,451	1,012	1,516	2,115		
2016	31,045	54,102	12,418	10,820	50%	6,209	5,410			3,182	2,220	1,481	1,033	1,546	2,157		

Percentage c assumed to t		Private fleet AFVs						net additional AFVs to gen. public			Vehicles in fleets under EPACT requirements						Non-AFVs
Private	vate fleets	Used vehicles sold to local purchasers			Vehicles permanently retired			annually			annually			Annual			% of all fleet vehicles
Year		annually			annually			Alcohol	EV	LPG	total	EPACT %	# of new vehicles cars	trucks	cars	trucks	
1992	LPG	Alcohol	EV	LPG	Alcohol	EV	LPG	Alcohol	EV	LPG	total	EPACT %	# of new vehicles cars	trucks	cars	trucks	% of all fleet vehicles
1993	134	0	0	0	0	0	0	0	0	0	0	0	2,343	2,179	0	0	0%
1994	94	0	0	40	0	0	13	0	0	27	27	0	2,390	2,223	0	0	0%
1995	54	0	0	40	0	0	13	0	0	27	27	0	2,438	2,268	0	0	0%
1996	193	0	0	0	0	0	13	0	0	0	0	0	2,487	2,313	0	0	0%
1997	475	0	10	0	0	0	13	0	10	0	10	0	2,537	2,360	0	0	0%
1998	904	0	0	0	0	0	13	0	0	0	0	0	2,588	2,407	0	0	0%
1999	1,342	190	35	125	0	0	13	190	35	112	337	20%	2,640	2,456	528	491	3%
2000	1,863	384	78	254	0	0	13	384	78	241	702	20%	2,694	2,505	539	501	3%
2001	2,471	579	130	386	0	0	13	579	130	372	1,082	20%	2,748	2,556	550	511	3%
2002	3,168	776	194	520	0	0	0	776	194	520	1,490	30%	2,803	2,607	841	782	5%
2003	3,889	1,072	295	723	0	10	0	1,072	285	723	2,080	40%	2,860	2,660	1,144	1,064	6%
2004	4,791	1,377	403	933	0	0	0	1,377	403	932	2,713	50%	2,917	2,714	1,459	1,357	8%
2005	5,815	1,688	526	1,148	190	35	125	1,497	491	1,022	3,010	60%	2,976	2,768	1,786	1,661	10%
2006	7,017	1,995	667	1,372	384	78	254	1,612	589	1,118	3,318	70%	3,036	2,824	2,125	1,977	11%
2007	8,250	2,526	874	1,744	579	130	386	1,947	743	1,359	4,049	70%	3,097	2,881	2,168	2,017	11%
2008	9,165	3,120	1,108	2,070	776	194	520	2,343	915	1,550	4,808	70%	3,160	2,939	2,212	2,057	11%
2009	9,702	3,665	1,377	2,454	1,072	295	723	2,593	1,082	1,731	5,405	70%	3,223	2,998	2,256	2,099	11%
2010	9,846	4,254	1,631	2,853	1,377	403	933	2,877	1,228	1,921	6,025	70%	3,288	3,059	2,302	2,141	11%
2011	10,031	4,287	1,734	2,893	1,688	526	1,148	2,599	1,208	1,746	5,553	70%	3,355	3,120	2,348	2,184	11%
2012	10,227	4,342	1,816	2,937	1,995	667	1,372	2,347	1,149	1,565	5,060	70%	3,422	3,183	2,396	2,228	11%
2013	10,431	4,359	1,936	2,983	2,526	874	1,744	1,832	1,062	1,239	4,133	70%	3,491	3,247	2,444	2,273	11%
2014	10,611	4,469	1,936	3,060	3,120	1,108	2,070	1,349	828	990	3,167	70%	3,562	3,313	2,493	2,319	11%
2015	10,783	4,543	1,999	3,113	3,665	1,377	2,454	878	622	660	2,160	70%	3,633	3,379	2,543	2,366	11%
2016	10,967	4,618	2,064	3,167	4,254	1,631	2,853	364	433	314	1,111	70%	3,707	3,448	2,595	2,413	11%

Percentage c		non-AFVs												
assumed to t														
Private	Sold to local purchasers	Non-AFVs Permanently retired		Additional cost for AFV purchases			Additional cost for fuel			Total Additional C	Total	Total	Total	To be used
Year	annually	LDVs	LDVs	Alcohol	EV	LPG	Alcohol	EV	LPG	All	voluntary	EPACT	State-	in
										Fuels	cost	Cost	Imposed	cost
											0	0	Costs	chart
1992														
1993		16,103	5,368											
1994		16,437	5,479											
1995		16,781	5,594	\$0	\$1,325	\$446	\$137	(\$6,100)	\$26,167	\$21,973	\$49,920	\$0	\$0	\$0
1996		17,003	5,668	(\$4,232)	\$645,550	\$197,823	\$64,864	(\$26,838)	\$91,561	\$972,959	\$55,560	\$0	\$953,259	\$917,399
1997		17,113	5,704	(\$17,053)	\$1,318,392	\$378,238	\$193,372	(\$66,864)	\$223,184	\$2,046,323	\$82,877	\$0	\$2,020,964	\$1,963,445
1998		17,100	5,700	(\$38,611)	\$2,000,590	\$539,943	\$384,354	(\$142,522)	\$420,045	\$3,202,410	\$141,627	\$0	\$3,177,531	\$3,060,784
1999		17,080	5,693	(\$69,003)	\$2,668,278	\$681,663	\$573,828	(\$233,035)	\$617,614	\$4,308,348	\$266,258	\$2,312,426	\$4,294,383	\$1,995,922
2000		16,989	5,663	(\$119,120)	\$3,605,092	\$883,417	\$789,334	(\$353,499)	\$844,868	\$5,769,212	\$475,757	\$2,500,740	\$5,776,271	\$3,268,472
2001		16,823	5,608	(\$183,660)	\$4,481,433	\$1,098,411	\$1,033,449	(\$501,793)	\$1,103,981	\$7,215,482	\$765,496	\$2,686,120	\$7,252,800	\$4,529,361
2002		16,581	5,527	(\$262,528)	\$5,260,288	\$1,300,525	\$1,305,615	(\$678,473)	\$1,394,427	\$8,582,383	\$1,082,695	\$3,694,397	\$8,658,337	\$4,887,985
2003		16,323	5,441	(\$77,592)	\$5,927,710	\$1,493,939	\$1,572,701	(\$871,142)	\$1,685,948	\$9,809,156	\$1,395,782	\$4,727,788	\$9,935,993	\$5,081,368
2004		15,909	5,303	(\$154,375)	\$7,282,536	\$1,821,699	\$1,899,956	(\$1,110,573)	\$2,044,835	\$11,938,453	\$1,621,065	\$5,892,349	\$12,128,040	\$6,046,105
2005		15,336	5,112	(\$259,966)	\$8,004,160	\$2,069,605	\$2,007,864	(\$1,412,109)	\$2,462,374	\$13,131,894	\$1,650,041	\$6,551,950	\$13,372,406	\$6,579,944
2006		14,596	4,865	\$122,164	\$9,024,767	\$2,399,010	\$2,426,999	(\$1,776,117)	\$2,947,377	\$15,022,037	\$1,745,882	\$7,523,532	\$15,341,395	\$7,498,505
2007		13,819	4,606	\$47,267	\$10,511,707	\$2,726,492	\$2,854,146	(\$2,158,934)	\$3,436,985	\$17,370,396	\$1,801,494	\$7,818,386	\$17,787,393	\$9,552,010
2008		13,377	4,459	\$309,595	\$10,021,382	\$2,700,498	\$3,130,196	(\$2,467,116)	\$3,787,213	\$17,172,173	\$1,801,207	\$7,717,763	\$17,703,143	\$9,454,409
2009		13,283	4,428	\$217,104	\$9,884,530	\$2,675,573	\$3,276,712	(\$2,673,285)	\$3,976,073	\$17,139,603	\$1,794,492	\$7,685,552	\$17,800,123	\$9,454,051
2010		13,551	4,517	\$968,571	\$9,248,717	\$2,651,672	\$3,275,936	(\$2,807,025)	\$4,001,762	\$16,371,062	\$1,810,404	\$7,419,399	\$17,178,805	\$8,951,663
2011		13,824	4,608	\$893,748	\$10,324,486	\$2,719,878	\$3,294,104	(\$2,885,755)	\$4,042,883	\$17,495,595	\$1,929,482	\$7,964,299	\$18,445,380	\$9,531,296
2012		14,103	4,701	\$807,682	\$10,215,925	\$2,767,285	\$3,316,239	(\$2,953,642)	\$4,087,241	\$17,433,049	\$1,934,153	\$7,998,068	\$18,521,582	\$9,434,981
2013		14,388	4,796	\$718,416	\$10,091,893	\$2,815,207	\$3,351,960	(\$2,992,640)	\$4,133,519	\$17,399,939	\$1,940,897	\$8,041,896	\$18,621,182	\$9,358,043
2014		14,678	4,893	\$625,875	\$9,952,710	\$2,863,516	\$3,378,176	(\$3,064,374)	\$4,168,638	\$17,298,667	\$1,941,033	\$8,057,971	\$18,656,219	\$9,240,696
2015		14,974	4,991	\$529,524	\$9,855,100	\$2,904,558	\$3,432,426	(\$3,172,507)	\$4,236,049	\$17,255,626	\$1,944,193	\$8,104,282	\$18,760,983	\$9,151,344
2016		15,276	5,092	\$540,195	\$10,053,704	\$2,963,092	\$3,491,761	(\$3,270,354)	\$4,308,672	\$17,546,874	\$1,960,084	\$8,294,567	\$19,200,985	\$9,252,307

Percentage of AFVs leaving rental car fleets					Default: 10%		Age of vehicle (yrs) at sale: 1			text		text		text		text		text		text	
assumed to be resold and retained in the islands. User Entered: 10%					10%		Average vehicle life (yrs): 9			text		text		text		text		text		text	
Rental Car		Rental Car Fleet Acquisition of Light Duty Alternative Fuel Vehicles										Rental Car Fleet Acquisition of Light Duty Alternative Fuel Vehicles									
Year	autos	light trucks	new autos	new light trucks	AFVs as % of New Vehicles	AFV cars (new)	AFV trucks (new)	AFV cars cumulative	AFV trucks cumulative	Alcohol		EV		LPG							
1992	38,491	0								cars	trucks	cars	trucks	cars	trucks						
1993	39,267	0	39,267	0	0%	0	0	0	0	0	0	0	0	0	0						
1994	40,058	0	40,058	0	0%	0	0	0	0	0	0	0	0	0	0						
1995	40,865	0	40,865	0	0%	2	0	2	0	1	0	0	0	1	0						
1996	41,689	0	41,689	0	0%	8	0	10	0	5	0	1	0	2	0						
1997	42,529	0	42,529	0	0%	30	0	30	0	18	0	4	0	8	0						
1998	43,386	0	43,386	0	0%	88	0	88	0	52	0	12	0	25	0						
1999	44,260	0	44,260	0	0%	216	0	216	0	125	0	31	0	60	0						
2000	45,152	0	45,152	0	3%	1,129	0	1,129	0	643	0	177	0	308	0						
2001	46,062	0	46,062	0	5%	2,303	0	2,303	0	1,298	0	380	0	625	0						
2002	46,990	0	46,990	0	8%	3,524	0	3,524	0	1,963	0	612	0	949	0						
2003	47,937	0	47,937	0	10%	4,794	0	4,794	0	2,630	0	879	0	1,285	0						
2004	48,903	0	48,903	0	13%	6,113	0	6,113	0	3,329	0	1,151	0	1,633	0						
2005	49,889	0	49,889	0	15%	7,483	0	7,483	0	4,098	0	1,456	0	1,929	0						
2006	50,894	0	50,894	0	18%	8,907	0	8,907	0	4,813	0	1,808	0	2,286	0						
2007	51,920	0	51,920	0	20%	10,384	0	10,384	0	5,585	0	2,141	0	2,658	0						
2008	52,966	0	52,966	0	23%	11,917	0	11,917	0	6,328	0	2,560	0	3,029	0						
2009	54,034	0	54,034	0	25%	13,508	0	13,508	0	7,118	0	2,976	0	3,414	0						
2010	55,123	0	55,123	0	28%	15,159	0	15,159	0	7,857	0	3,489	0	3,813	0						
2011	56,234	0	56,234	0	30%	16,870	0	16,870	0	8,792	0	3,809	0	4,269	0						
2012	57,367	0	57,367	0	33%	18,644	0	18,644	0	9,681	0	4,259	0	4,704	0						
2013	58,523	0	58,523	0	35%	20,483	0	20,483	0	10,596	0	4,736	0	5,152	0						
2014	59,702	0	59,702	0	38%	22,388	0	22,388	0	11,535	0	5,241	0	5,612	0						
2015	60,905	0	60,905	0	40%	24,362	0	24,362	0	12,485	0	5,809	0	6,067	0						
2016	62,133	0	62,133	0	40%	24,853	0	24,853	0	12,737	0	5,926	0	6,190	0						

Cumulative AFVs in re	
cumulative	
Alcohol	EV
0	0
0	0
1	0
5	1
18	4
52	12
125	31
643	177
1,298	380
1,963	612
2,630	879
3,329	1,151
4,098	1,456
4,813	1,808
5,585	2,141
6,328	2,560
7,118	2,976
7,857	3,489
8,792	3,809
9,681	4,259
10,596	4,736
11,535	5,241
12,485	5,809
12,737	5,926

Percentage of total fleet assumed to be used by the public		Rental fleet AFVs					
Rental Car	total fleets	Used vehicles sold to local purchasers			Vehicles permanently retired		
Year		annually			annually		
		Alcohol	EV	LPG	Alcohol	EV	LPG
1992	LPG						
1993	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1995	1	0	0	0	0	0	0
1996	2	0	0	0	0	0	0
1997	8	1	0	0	0	0	0
1998	25	2	0	1	0	0	0
1999	60	5	1	2	0	0	0
2000	308	13	3	6	0	0	0
2001	625	64	18	31	0	0	0
2002	949	130	38	62	0	0	0
2003	1,285	196	61	95	0	0	0
2004	1,633	263	88	128	0	0	0
2005	1,929	333	115	163	1	0	0
2006	2,286	410	146	193	2	0	1
2007	2,658	481	181	229	5	1	2
2008	3,029	559	214	266	13	3	6
2009	3,414	633	256	303	64	18	31
2010	3,813	712	298	341	130	38	62
2011	4,269	786	349	381	196	61	95
2012	4,704	879	381	427	263	88	128
2013	5,152	968	426	470	333	115	163
2014	5,612	1,060	474	515	410	146	193
2015	6,067	1,154	524	561	481	181	229
2016	6,190	1,249	581	607	559	214	266

net additional AFVs to gen. public
annually

Alcohol	EV	LPG	total	State require # of new car	# of new truck	AFVs require	AFVs as % of new vehicles
0	0	0	0	0	27,281	0	0%
0	0	0	0	0	27,830	0	0%
0	0	0	0	0	28,391	0	0%
0	0	0	0	0	28,963	0	0%
1	0	0	1	0	29,547	0	0%
2	0	1	3	0	30,142	0	0%
5	1	2	9	0	30,750	0	0%
13	3	6	22	0	31,370	0	0%
64	18	31	113	0	32,002	0	0%
130	38	62	230	0	32,647	0	0%
196	61	95	352	0	33,305	0	0%
263	88	128	479	0	33,976	0	0%
332	115	163	610	0	34,660	0	0%
408	145	192	745	0	35,359	0	0%
476	180	226	882	0	36,072	0	0%
546	211	260	1,017	0	36,798	0	0%
568	238	272	1,079	0	37,540	0	0%
582	260	279	1,121	0	38,297	0	0%
589	288	286	1,163	0	39,068	0	0%
616	293	298	1,208	0	39,856	0	0%
635	311	307	1,253	0	40,659	0	0%
650	328	322	1,300	0	41,478	0	0%
672	343	333	1,348	0	42,314	0	0%
690	367	341	1,398	0	43,167	0	0%

[illegible]

Percentage c assumed to b	non-AFVs															
Rental Car	Sold to local purchasers		Non-AFVs Permanently retired													
Year	annually		annually		Additional cost for AFV purchases			Additional cost for fuel			Total Additional C	Total voluntary cost	Total EPACT Cost	Total State- Imposed Costs	To be used in cost chart	
		LDVs		LDVs	Alcohol	EV	LPG	Alcohol	EV	LPG	All Fuels	0	0	0	0	0
1992																
1993		3,927		436												
1994		4,006		445												
1995		4,086		454	\$0	\$3,542	\$813	\$366	(\$108)	\$264	\$4,876	\$4,876	\$0	\$0	\$0	\$0
1996		4,168		463	(\$101)	\$15,472	\$3,376	\$1,551	(\$501)	\$1,127	\$21,026	\$21,381	\$0	\$0	\$0	\$0
1997		4,250		472	(\$716)	\$55,375	\$11,309	\$5,424	(\$1,938)	\$3,962	\$74,133	\$75,810	\$0	\$0	\$0	\$0
1998		4,330		481	(\$3,121)	\$161,720	\$31,060	\$15,603	(\$6,172)	\$11,459	\$213,669	\$219,556	\$0	\$0	\$0	\$0
1999		4,404		489	(\$10,014)	\$387,216	\$70,368	\$37,170	(\$16,284)	\$27,445	\$505,915	\$523,433	\$0	\$0	\$0	\$0
2000		4,402		489	(\$64,336)	\$1,947,095	\$339,281	\$188,275	(\$90,963)	\$139,888	\$2,523,577	\$1,034,418	\$0	\$2,523,577	\$1,489,159	\$1,489,159
2001		4,376		486	(\$155,780)	\$3,801,132	\$662,323	\$374,302	(\$192,458)	\$279,211	\$4,924,511	\$1,741,024	\$0	\$5,134,847	\$3,183,487	\$3,183,487
2002		4,347		483	(\$274,887)	\$5,507,914	\$967,795	\$557,668	(\$305,228)	\$417,646	\$7,145,795	\$2,522,392	\$0	\$7,761,731	\$4,623,403	\$4,623,403
2003		4,314		479	(\$92,043)	\$7,031,683	\$1,259,283	\$735,580	(\$431,724)	\$557,032	\$9,151,853	\$3,324,125	\$0	\$10,352,363	\$5,827,728	\$5,827,728
2004		4,279		475	(\$183,071)	\$8,636,234	\$1,534,905	\$916,679	(\$556,870)	\$696,932	\$11,227,880	\$3,951,752	\$0	\$13,172,741	\$7,276,128	\$7,276,128
2005		4,241		471	(\$307,362)	\$9,463,452	\$1,736,342	\$969,211	(\$698,487)	\$816,884	\$12,287,402	\$4,095,082	\$0	\$14,834,430	\$8,192,320	\$8,192,320
2006		4,199		467	\$144,382	\$10,666,147	\$2,011,636	\$1,129,081	(\$860,362)	\$960,148	\$13,906,650	\$4,489,460	\$0	\$17,404,251	\$9,417,190	\$9,417,190
2007		4,154		462	\$55,850	\$12,420,540	\$2,285,459	\$1,299,667	(\$1,010,912)	\$1,107,188	\$16,101,943	\$4,820,957	\$0	\$20,668,311	\$11,280,986	\$11,280,986
2008		4,105		456	\$411,308	\$13,313,777	\$2,544,582	\$1,460,520	(\$1,198,795)	\$1,251,785	\$17,371,870	\$5,025,490	\$0	\$23,147,135	\$12,346,380	\$12,346,380
2009		4,053		450	\$320,324	\$14,584,042	\$2,799,306	\$1,629,474	(\$1,382,120)	\$1,399,091	\$19,029,793	\$5,216,539	\$0	\$26,108,573	\$13,813,254	\$13,813,254
2010		3,996		444	\$1,571,354	\$15,004,587	\$3,050,015	\$1,783,617	(\$1,606,965)	\$1,549,561	\$19,780,814	\$5,471,544	\$0	\$28,270,473	\$14,309,270	\$14,309,270
2011		3,936		437	\$1,582,587	\$18,281,885	\$3,415,341	\$1,979,289	(\$1,739,352)	\$1,720,669	\$23,657,832	\$5,984,935	\$0	\$33,617,184	\$17,672,897	\$17,672,897
2012		3,872		430	\$1,548,981	\$19,592,214	\$3,763,106	\$2,161,057	(\$1,928,676)	\$1,879,904	\$25,467,605	\$6,186,773	\$0	\$37,092,738	\$19,280,832	\$19,280,832
2013		3,804		423	\$1,483,384	\$20,837,715	\$4,121,233	\$2,345,094	(\$2,126,305)	\$2,041,320	\$27,219,056	\$6,380,597	\$0	\$40,630,332	\$20,838,460	\$20,838,460
2014		3,731		415	\$1,384,234	\$22,012,180	\$4,489,635	\$2,531,195	(\$2,332,946)	\$2,204,742	\$28,904,806	\$6,566,076	\$0	\$44,217,835	\$22,338,730	\$22,338,730
2015		3,654		406	\$1,248,548	\$23,237,024	\$4,853,922	\$2,739,697	(\$2,585,898)	\$2,383,633	\$30,628,378	\$6,774,970	\$0	\$48,104,099	\$23,853,408	\$23,853,408
2016		3,728		414	\$1,273,709	\$23,705,306	\$4,951,740	\$2,794,908	(\$2,638,010)	\$2,431,669	\$31,245,613	\$7,025,215	\$0	\$51,005,022	\$24,220,398	\$24,220,398

Percentage of AFVs leaving individual owners					Default: 90%					Age of vehicle (yrs) at sale: 5		text	text	text	text	text	text
assumed to be resold and retained in the islands: User Entered: 90%					90%					Average vehicle life (yrs): 9		text	text	text	text	text	text
Private Indi Private Individual Acquisition of Light Duty AFVs					New AFVs purchased by individuals					Voluntary purchases							
Year	Cars	Light Trucks	new autos	ew light truck	AFVs as %	AFV cars	AFV trucks	AFV cars	AFV trucks	Alcohol		EV		LPG			
					of new veh.	(new)	(new)	cumulative	cumulative	cars	trucks	cars	trucks	cars	trucks		
1992	69,832	2,450	27,933	490													
1993	71,240	2,499	28,496	500	0%	0	0	5	2	0	0	0	0	0	0	0	0
1994	72,675	2,550	29,070	510	0%	1	0	6	2	1	0	0	0	0	0	0	0
1995	74,140	2,601	29,656	520	0%	1	0	7	2	1	0	0	0	0	0	0	0
1996	75,634	2,653	30,254	531	0%	6	0	14	2	4	0	1	0	2	0		
1997	77,158	2,707	30,863	541	0%	22	0	34	3	13	0	3	0	6	0		
1998	78,713	2,761	31,485	552	0%	64	1	97	4	37	1	10	0	18	1		
1999	80,299	2,817	32,120	563	0%	157	4	249	7	89	2	25	0	43	2		
2000	81,918	2,874	32,767	575	1%	322	7	549	14	180	3	55	1	87	3		
2001	83,568	2,932	33,427	586	2%	559	12	1,044	25	309	5	100	2	150	5		
2002	85,253	2,991	34,101	598	2%	835	19	1,721	40	457	8	156	3	223	8		
2003	86,971	3,051	34,788	610	3%	1,097	24	2,496	57	592	10	214	4	292	10		
2004	88,723	3,113	35,489	623	4%	1,307	29	3,244	74	700	12	260	5	346	12		
2005	90,511	3,175	36,205	635	4%	1,465	32	3,874	88	791	14	299	5	376	13		
2006	92,335	3,239	36,934	648	4%	1,552	34	4,329	97	827	15	329	6	396	14		
2007	94,196	3,305	37,678	661	4%	1,609	35	4,632	104	854	15	346	6	409	14		
2008	96,094	3,371	38,438	674	4%	1,654	36	4,820	108	867	15	368	6	418	15		
2009	98,031	3,439	39,212	688	4%	1,696	37	4,964	111	883	15	386	7	426	15		
2010	100,006	3,508	40,003	702	4%	1,733	38	5,088	114	889	16	410	7	434	15		
2011	102,022	3,579	40,809	716	4%	1,772	39	5,206	116	913	16	413	7	446	16		
2012	104,078	3,651	41,631	730	4%	1,814	40	5,325	119	931	16	427	7	455	16		
2013	106,175	3,725	42,470	745	4%	1,857	41	5,448	121	950	17	442	8	465	16		
2014	108,315	3,800	43,326	760	4%	1,900	42	5,576	124	969	17	457	8	474	17		
2015	110,498	3,877	44,199	775	4%	1,940	42	5,702	127	984	17	475	8	481	17		
2016	112,724	3,955	45,090	791	4%	1,940	42	5,786	129	984	17	475	8	481	17		

Cumulative AFVs owned b	
cumulative	
Alcohol	EV
1	6
2	5
2	4
6	4
19	6
56	16
146	41
328	97
639	198
1,091	354
1,655	561
2,276	801
2,898	1,049
3,425	1,281
3,830	1,475
4,110	1,633
4,296	1,761
4,396	1,874
4,484	1,960
4,563	2,043
4,647	2,118
4,734	2,190
4,831	2,255
4,903	2,318

Percentage c assumed to t		Individuals' AFVs					
Private Indiv		Used vehicles sold to local purchasers			Vehicles permanently retired		
Year		annually			annually		
	LPG	Alcohol	EV	LPG	Alcohol	EV	LPG
1992							
1993	0	0	0	0	0	0	0
1994	0	0	1	0	0	1	0
1995	0	0	1	0	0	1	0
1996	2	0	1	0	0	1	0
1997	8	0	1	0	0	1	0
1998	27	0	0	0	0	1	0
1999	71	1	0	0	0	1	0
2000	161	1	0	0	0	1	0
2001	315	3	1	2	0	1	0
2002	539	12	3	6	0	0	0
2003	823	34	9	17	1	0	0
2004	1,137	82	23	40	1	0	0
2005	1,435	165	51	81	3	1	2
2006	1,690	283	92	140	12	3	6
2007	1,883	418	143	208	34	9	17
2008	2,014	542	196	272	82	23	40
2009	2,096	641	239	323	165	51	81
2010	2,157	724	274	350	283	92	140
2011	2,208	758	301	369	418	143	208
2012	2,256	782	317	381	542	196	272
2013	2,304	794	337	389	641	239	323
2014	2,353	808	354	397	724	274	350
2015	2,403	814	376	404	758	301	369
2016	2,439	836	378	415	782	317	381

net additional AFVs to gen. public

annually			total
Alcohol	EV	LPG	
0	0	0	0
0	0	0	1
0	0	0	1
0	0	0	1
0	0	0	1
0	0	0	1
0	0	0	0
1	0	0	1
1	0	0	1
3	0	2	5
12	3	6	20
33	9	17	58
81	23	40	144
161	50	80	291
271	89	134	494
384	134	191	709
460	173	232	865
476	188	241	905
441	182	210	834
339	158	161	659
240	121	110	471
153	99	67	319
84	80	47	211
57	75	35	167
54	62	34	150

non-AFVs				
Non-AFVs Sold to local purchasers		Non-AFVs Permanently retired		
annually		annually		Additional
	LDVs		LDVs	Alcohol
	13,272		7,373	
	13,539		7,522	
	13,812		7,673	\$0
	14,090		7,828	(\$73)
	14,370		7,983	(\$519)
	14,648		8,138	(\$2,262)
	14,914		8,286	(\$7,261)
	15,157		8,420	(\$18,308)
	15,363		8,535	(\$37,704)
	15,527		8,626	(\$65,032)
	15,657		8,698	(\$21,073)
	15,772		8,762	(\$39,161)
	15,895		8,830	(\$60,345)
	16,052		8,918	\$25,251
	16,256		9,031	\$8,689
	16,508		9,171	\$57,365
	16,797		9,332	\$40,421
	17,116		9,509	\$180,939
	17,451		9,695	\$167,252
	17,796		9,887	\$151,647
	18,150		10,083	\$135,332
	18,511		10,284	\$118,285
	18,879		10,489	\$100,138
	19,263		10,702	\$100,138

Percentage c
assumed to b

Private Indi

Year	cost for AFV purchases		Additional cost for fuel			Total Additional Cos Fuels	Total voluntary cost 0	tal Additional Co All Fuels 0
1992	EV	LPG	Alcohol	EV	LPG			
1993								
1994								
1995	\$3,108	\$607	\$779	(\$2,211)	\$197	\$2,481	\$1,404	\$0
1996	\$13,351	\$2,519	\$1,829	(\$2,007)	\$1,033	\$16,724	\$15,075	\$0
1997	\$47,007	\$8,436	\$5,685	(\$3,058)	\$3,979	\$62,049	\$59,450	\$0
1998	\$135,120	\$23,167	\$16,937	(\$8,185)	\$12,486	\$179,524	\$175,202	\$0
1999	\$318,608	\$52,486	\$43,422	(\$21,502)	\$32,833	\$425,847	\$416,577	\$0
2000	\$619,107	\$99,264	\$96,122	(\$50,024)	\$73,100	\$837,569	\$817,315	\$0
2001	\$1,016,991	\$164,789	\$184,241	(\$100,372)	\$140,699	\$1,406,348	\$1,366,871	\$0
2002	\$1,425,283	\$235,322	\$309,734	(\$176,313)	\$237,376	\$2,031,401	\$1,965,114	\$0
2003	\$1,740,710	\$295,942	\$462,894	(\$275,702)	\$356,709	\$2,580,555	\$2,559,617	\$0
2004	\$1,987,533	\$336,970	\$626,851	(\$387,184)	\$485,230	\$3,049,400	\$3,013,527	\$0
2005	\$1,978,967	\$349,815	\$685,299	(\$503,167)	\$607,735	\$3,118,649	\$3,066,451	\$0
2006	\$1,972,895	\$360,612	\$803,553	(\$609,872)	\$709,684	\$3,236,871	\$3,279,264	\$0
2007	\$2,042,077	\$364,468	\$891,165	(\$696,389)	\$784,395	\$3,385,717	\$3,424,355	\$0
2008	\$1,949,560	\$363,530	\$948,636	(\$764,377)	\$832,050	\$3,329,399	\$3,432,656	\$0
2009	\$1,926,795	\$361,835	\$983,471	(\$817,637)	\$859,140	\$3,313,604	\$3,418,224	\$0
2010	\$1,795,776	\$359,194	\$998,045	(\$862,979)	\$876,535	\$3,166,571	\$3,431,221	\$0
2011	\$2,018,339	\$369,215	\$1,009,403	(\$895,089)	\$890,063	\$3,391,931	\$3,662,388	\$0
2012	\$2,000,180	\$376,928	\$1,018,506	(\$925,015)	\$901,492	\$3,372,092	\$3,646,465	\$0
2013	\$1,978,892	\$384,747	\$1,028,471	(\$950,755)	\$912,917	\$3,354,273	\$3,631,136	\$0
2014	\$1,954,524	\$392,657	\$1,038,853	(\$974,720)	\$924,565	\$3,335,878	\$3,614,024	\$0
2015	\$1,933,162	\$398,520	\$1,060,070	(\$1,003,951)	\$943,876	\$3,331,676	\$3,610,576	\$0
2016	\$1,933,162	\$398,520	\$1,075,915	(\$1,031,907)	\$958,267	\$3,333,955	\$3,632,658	\$0

Used cars	AFV Accumulation in "Public Fleet", i.e. Fleet AFVs Resold on the Islands			
	Alcohol	EV	LPG	Total AFV
Year	cumulative	cumulative	cumulative	cumulative
1993	0	0	0	0
1994	0	0	27	27
1995	0	1	54	55
1996	0	1	54	55
1997	1	12	54	67
1998	8	12	55	75
1999	210	49	169	427
2000	610	130	418	1,159
2001	1,306	287	861	2,453
2002	2,281	533	1,498	4,312
2003	3,673	907	2,406	6,987
2004	5,536	1,454	3,619	10,610
2005	7,627	2,139	4,963	14,730
2006	10,050	3,000	6,510	19,561
2007	12,922	4,083	8,338	25,343
2008	16,277	5,396	10,386	32,059
2009	19,951	6,927	12,662	39,539
2010	23,898	8,623	15,104	47,625
2011	27,473	10,304	17,331	55,109
2012	30,725	11,896	19,338	61,958
2013	33,367	13,387	20,960	67,714
2014	35,466	14,643	22,333	72,443
2015	37,083	15,704	23,369	76,155
2016	38,202	16,584	24,067	78,852

Used AFVs purchased						Used in	Cum	Cum	Total
from Fed	from State	from County	from Private	from Rental	from Indiv	per year	In	Retirements	on road
0	0	0	0	0	0	0	0	0	0
0	0	0	40	0	1	42	42	15	27
0	0	0	40	0	1	42	83	29	54
0	0	0	0	0	1	2	85	44	41
0	0	0	10	1	1	12	97	58	39
5	0	0	1	3	0	8	106	73	33
5	0	0	351	9	1	366	472	87	384
6	0	0	716	22	1	745	1,217	102	1,115
91	2	3	1,095	113	6	1,309	2,526	117	2,410
123	0	0	1,490	230	20	1,863	4,389	126	4,264
189	0	0	2,090	352	59	2,691	7,080	142	6,938
290	5	0	2,713	479	145	3,632	10,712	150	10,562
296	7	1	3,361	611	297	4,573	15,285	603	14,682
302	100	2	4,034	748	514	5,700	20,985	1,473	19,512
308	102	24	5,144	891	768	7,237	28,222	2,927	25,295
314	104	25	6,297	1,038	1,009	8,788	37,010	5,000	32,010
384	106	25	7,495	1,192	1,202	10,405	47,415	7,924	39,491
392	108	39	8,738	1,351	1,348	11,976	59,391	11,815	47,576
400	110	53	8,915	1,516	1,427	12,421	71,812	16,751	55,061
408	113	67	9,094	1,687	1,480	12,849	84,661	22,751	61,910
416	115	82	9,277	1,864	1,521	13,277	97,938	30,273	67,665
425	117	98	9,464	2,048	1,559	13,712	111,650	39,256	72,394
433	120	100	9,655	2,239	1,594	14,141	125,791	49,684	76,107
442	122	102	9,850	2,436	1,630	14,582	140,373	61,569	78,804

from Fed
382
388
395
385
368
340
291
242
209
181
165
156
146
136
126
116
118
121
123
125
128
131
133
136

Used cars													Total Additiona Fuels	Total voluntary cost
	Used non-AFVs purchased					Used in	Cum	Cum	Additional	Additional cost for fuel				
Year	from State	from County	from Private	from Rental	from Indiv	per year	In	Retirements	on road	Alcohol	EV	LPG		
1993	362	691	16,103	3,927	13,272	34,736	34,736	14,325	20,411					
1994	369	705	16,437	4,006	13,539	35,444	70,180	28,941	41,239					
1995	376	719	16,781	4,086	13,812	36,170	106,349	43,855	62,495	\$66	(\$529)	\$26,022	\$25,559	\$25,559
1996	383	733	17,003	4,168	14,090	36,762	143,111	59,019	84,092	\$132	(\$784)	\$25,400	\$24,748	\$24,748
1997	390	748	17,113	4,250	14,370	37,239	180,350	74,395	105,955	\$316	(\$6,348)	\$25,264	\$19,232	\$19,232
1998	386	763	17,100	4,330	14,648	37,566	217,916	89,924	127,992	\$2,325	(\$6,512)	\$25,407	\$21,220	\$21,220
1999	381	775	17,080	4,404	14,914	37,846	255,763	105,582	150,181	\$62,249	(\$25,309)	\$77,834	\$114,773	\$114,773
2000	376	788	16,989	4,402	15,157	37,954	293,717	121,324	172,393	\$178,622	(\$66,969)	\$189,562	\$301,214	\$301,214
2001	372	801	16,823	4,376	15,363	37,944	331,661	137,111	194,549	\$376,455	(\$145,079)	\$384,845	\$616,222	\$616,222
2002	367	812	16,581	4,347	15,527	37,815	369,475	152,896	216,579	\$647,963	(\$265,667)	\$659,233	\$1,041,528	\$1,041,528
2003	362	823	16,323	4,314	15,657	37,643	407,119	168,659	238,460	\$1,027,339	(\$445,732)	\$1,043,060	\$1,624,668	\$1,624,668
2004	357	831	15,909	4,279	15,772	37,304	444,423	184,342	260,081	\$1,524,728	(\$703,360)	\$1,544,719	\$2,366,087	\$2,366,087
2005	353	838	15,336	4,241	15,895	36,808	481,231	199,896	281,335	\$1,803,808	(\$1,026,426)	\$2,101,484	\$2,878,867	\$2,878,867
2006	360	844	14,596	4,199	16,052	36,186	517,418	215,291	302,127	\$2,357,828	(\$1,427,762)	\$2,734,407	\$3,664,473	\$3,664,473
2007	367	853	13,819	4,154	16,256	35,575	552,992	230,544	322,448	\$3,006,970	(\$1,927,568)	\$3,473,822	\$4,553,224	\$4,553,224
2008	374	861	13,377	4,105	16,508	35,341	588,333	245,793	342,540	\$3,756,849	(\$2,526,364)	\$4,291,875	\$5,522,360	\$5,522,360
2009	382	870	13,283	4,053	16,797	35,503	623,836	261,181	362,655	\$4,566,976	(\$3,216,634)	\$5,189,236	\$6,539,578	\$6,539,578
2010	390	881	13,551	3,996	17,116	36,054	659,890	276,848	383,043	\$5,425,159	(\$3,970,935)	\$6,139,011	\$7,593,235	\$7,593,235
2011	397	894	13,824	3,936	17,451	36,625	696,516	292,804	403,712	\$6,184,763	(\$4,705,773)	\$6,985,270	\$8,464,260	\$8,464,260
2012	405	908	14,103	3,872	17,796	37,211	733,726	309,059	424,667	\$6,858,522	(\$5,386,637)	\$7,728,349	\$9,200,234	\$9,200,234
2013	414	925	14,388	3,804	18,150	37,808	771,534	325,622	445,912	\$7,385,071	(\$6,010,361)	\$8,305,368	\$9,680,077	\$9,680,077
2014	422	943	14,678	3,731	18,511	38,416	809,950	342,499	467,451	\$7,782,409	(\$6,518,234)	\$8,773,667	\$10,037,841	\$10,037,841
2015	430	962	14,974	3,654	18,879	39,034	848,983	359,697	489,287	\$8,137,079	(\$6,990,289)	\$9,180,633	\$10,327,424	\$10,327,424
2016	439	982	15,276	3,728	19,263	39,824	888,808	377,244	511,564	\$8,382,605	(\$7,382,173)	\$9,454,796	\$10,455,228	\$10,455,228

Total AFVs

Year	Alcohol cumulative	EV cumulative	LPG cumulative	Total AFV cumulative
1993	8	6	137	151
1994	15	16	123	155
1995	21	17	113	151
1996	295	66	298	660
1997	822	171	650	1,643
1998	1,703	368	1,238	3,309
1999	2,944	679	2,048	5,671
2000	5,039	1,262	3,334	9,635
2001	7,768	2,080	4,994	14,842
2002	11,049	3,139	7,013	21,201
2003	14,845	4,458	9,378	28,681
2004	19,440	6,099	12,260	37,799
2005	24,661	8,046	15,330	48,037
2006	30,285	10,338	18,763	59,386
2007	36,345	12,847	22,454	71,646
2008	42,114	15,491	25,986	83,591
2009	47,579	18,105	29,305	94,989
2010	52,531	20,818	32,389	105,739
2011	57,378	23,178	35,344	115,900
2012	61,863	25,551	38,059	125,473
2013	65,828	27,777	40,410	134,014
2014	69,234	29,866	42,497	141,597

Privately owned AFVs

Year	Alcohol cumulative	EV cumulative	LPG cumulative	Private AFV cumulative
1993	1	6	134	141
1994	29	16	94	139
1995	59	15	55	129
1996	279	55	198	531
1997	742	135	492	1,369
1998	1,465	298	960	2,722
1999	2,631	519	1,478	4,629
2000	4,828	962	2,339	8,129
2001	7,975	1,569	3,501	13,045
2002	11,963	2,326	4,779	19,067
2003	16,894	3,214	6,186	26,294
2004	23,114	4,249	7,851	35,213
2005	30,216	5,448	9,476	45,139
2006	38,144	6,821	11,294	56,259
2007	47,023	8,190	13,098	68,310
2008	56,058	9,462	14,522	80,042
2009	65,268	10,494	15,596	91,358
2010	74,308	11,459	16,207	101,974
2011	83,017	12,088	16,908	112,014
2012	91,058	12,825	17,595	121,477
2013	98,101	13,519	18,303	129,923
2014	104,107	14,315	19,001	137,423

Non-government AFVs in Analysis Years:

Year	New	On road
1993	0	141
1994	12	180
1995	4	38
1996	404	13
1997	848	54
1998	1,371	180
1999	2,032	783
2000	3,780	2,336
2001	5,889	4,423
2002	8,113	6,792
2003	10,398	9,483
2004	13,164	12,252
2005	15,978	14,701
2006	18,820	17,068
2007	21,738	19,702
2008	23,513	22,236
2009	25,346	24,465
2010	27,238	26,669
2011	29,197	27,913
2012	31,226	29,263
2013	33,324	30,286
2014	35,495	31,531

Total Additional C

Year	All Fuels cost	ALL FL Total voluntary cost
1993	0	0
1994	\$78,802	\$88,977
1995	\$1,304,111	\$124,577
1996	\$2,592,622	\$247,687
1997	\$4,429,652	\$573,403
1998	\$6,569,428	\$1,350,106
1999	\$10,793,722	\$2,683,673
2000	\$15,595,562	\$4,581,221
2001	\$20,320,163	\$6,746,813
2002	\$24,745,452	\$9,081,316
2003	\$30,323,235	\$11,163,692
2004	\$33,114,451	\$11,919,035
2005	\$37,557,526	\$13,426,681
2006	\$43,131,567	\$14,860,361
2007	\$45,103,191	\$16,049,901
2008	\$47,695,735	\$17,240,417
2009	\$48,539,654	\$18,577,163
2010	\$54,630,545	\$20,314,530
2011	\$57,085,201	\$21,242,294
2012	\$59,255,521	\$21,907,735
2013	\$61,167,754	\$22,433,987
2014		

Total AFVs EETS			
Year	Total EPACT	Total State- Imposed Costs	To be used in cost chart
1993	Cost		
1994	0		
1995	\$24,695	\$0	\$0
1996	\$269,171	\$953,259	\$917,399
1997	\$390,185	\$2,020,964	\$1,963,445
1998	\$622,584	\$3,396,411	\$3,247,425
1999	\$3,358,627	\$4,545,531	\$2,165,123
2000	\$3,682,042	\$8,624,645	\$4,939,512
2001	\$3,938,337	\$12,736,810	\$7,898,842
2002	\$5,032,000	\$16,791,211	\$9,701,666
2003	\$6,118,737	\$20,678,957	\$11,111,536
2004	\$7,444,061	\$25,707,943	\$13,533,922
2005	\$8,066,104	\$28,609,120	\$14,983,530
2006	\$9,085,682	\$33,143,447	\$17,116,227
2007	\$9,387,197	\$38,847,174	\$21,027,015
2008	\$9,282,966	\$41,235,257	\$21,992,686
2009	\$9,227,927	\$44,285,677	\$23,456,130
2010	\$8,929,089	\$45,816,610	\$23,445,628
2011	\$9,475,505	\$52,427,957	\$27,388,766
2012	\$9,508,923	\$55,977,975	\$28,900,510
2013	\$9,550,881	\$59,613,840	\$30,381,513
2014	\$9,563,513	\$63,235,130	\$31,764,745

Buses		AFVs as % of new vehicle:					New vehicles		Cumulative AFVs		Total
Year	under 8.5K (light duty)	8.5K-26K	26K+	total	8.5K-26K	26K+	8.5K-26K	26K+	8.5K-26K	26K+	AF buses
1990	1077	1077	2154	4308	1%	1%	120	180	17	27	44
1991	1101	1101	2203	4405	1%	1%	122	184	15	23	38
1992	1126	1126	2251	4503	1%	1%	125	188	12	19	31
1993	1150	1150	2300	4600	1%	1%	128	192	10	15	25
1994	1174	1174	2349	4697	1%	1%	130	196	9	13	22
1995	1199	1199	2397	4795	0%	0%	133	200	6	9	16
1996	1223	1223	2446	4892	0%	0%	136	204	4	6	9
1997	1243	1243	2486	4973	0%	0%	138	207	1	2	3
1998	1263	1263	2527	5053	0%	0%	140	211	2	3	4
1999	1284	1284	2567	5134	1%	1%	143	214	2	4	6
2000	1304	1304	2607	5215	1%	1%	145	217	4	6	10
2001	1324	1324	2648	5295	2%	2%	147	221	7	10	17
2002	1344	1344	2688	5376	3%	3%	149	224	10	15	24
2003	1364	1364	2728	5456	4%	4%	152	227	15	23	38
2004	1384	1384	2769	5537	4%	4%	154	231	21	32	53
2005	1404	1404	2809	5618	5%	5%	156	234	28	43	71
2006	1425	1425	2849	5698	5%	5%	158	237	35	53	89
2007	1445	1445	2889	5779	5%	5%	161	241	42	64	106
2008	1465	1465	2930	5859	5%	5%	163	244	48	73	121
2009	1485	1485	2970	5940	5%	5%	165	248	53	81	134
2010	1505	1505	3010	6021	5%	5%	167	251	57	87	144
2011	1525	1525	3051	6101	5%	5%	169	254	60	91	151
2012	1545	1545	3091	6182	5%	5%	172	258	62	94	156
2013	1566	1566	3131	6262	5%	5%	174	261	64	96	160
2014	1586	1586	3172	6343	5%	5%	176	264	65	98	163
beyond 2014	1606	1606	3212	6424	5%	5%	178	268	66	100	166
beyond 2014	1626	1626	3252	6504	5%	5%	181	271	65	98	163

New AFVs by fuel type			Cumulative AFVs by fuel type		
Alcohol	Electricity	LPG	Alcohol	Electricity	LPG
0	0	0	0	0	44
0	0	0	0	0	38
0	0	0	0	0	31
0	0	0	0	0	25
0	3	0	0	3	19
0	0	0	0	3	13
0	0	0	0	3	6
0	0	0	0	3	0
0	0	0	1	3	1
1	0	1	1	3	1
2	0	2	3	4	3
3	1	3	6	5	6
5	1	4	11	3	10
6	2	6	17	5	16
7	2	7	23	7	23
8	3	7	31	10	30
8	3	8	39	13	37
8	3	8	46	16	44
8	3	8	52	19	50
8	4	8	58	21	55
8	4	8	62	24	59
9	4	8	64	25	62
9	4	8	66	27	63
9	4	9	67	28	65
9	4	9	68	29	66
9	4	9	69	30	67
4	4	9	65	31	67

Buses	Retirements by fuel type		
	Alcohol	Electricity	LPG
1990	0	0	6
1991	0	0	6
1992	0	0	6
1993	0	0	6
1994	0	0	6
1995	0	0	6
1996	0	0	6
1997	0	0	6
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	3	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0
2007	1	0	1
2008	2	0	2
2009	3	1	3
2010	5	1	4
2011	6	2	6
2012	7	2	7
2013	8	3	7
2014	8	3	8
beyond 2014	8	3	8
beyond 2014	8	3	8

Annual fuel consumption per vehicle from Chapter 2									
Year	Average fuel consumption (GEG/veh/yr.)				Analysis year?	mpg	8,806	% of 1995	kWh/mi
1995	455.08	455.08	455.08	455.08	no	19		100%	0.358
1996	452.06	452.06	452.06	452.06	yes	19		99%	0.356
1997	448.01	448.01	448.01	448.01	no	20		98%	0.352
1998	443.96	443.96	443.96	443.96	no	20		98%	0.349
1999	439.91	439.91	439.91	439.91	yes	20		97%	0.346
2000	433.86	433.86	433.86	433.86	no	20		95%	0.341
2001	427.80	427.80	427.80	427.80	no	21		94%	0.337
2002	421.75	421.75	421.75	421.75	no	21		93%	0.332
2003	415.70	415.70	415.70	415.70	no	21		91%	0.327
2004	409.65	409.65	409.65	409.65	yes	21		90%	0.322
2005	406.71	406.71	406.71	406.71	no	22		89%	0.320
2006	403.76	403.76	403.76	403.76	no	22		89%	0.318
2007	400.82	400.82	400.82	400.82	no	22		88%	0.315
2008	397.87	397.87	397.87	397.87	no	22		87%	0.313
2009	394.93	394.93	394.93	394.93	no	22		87%	0.311
2010	391.98	391.98	391.98	391.98	no	22		86%	0.308
2011	389.04	389.04	389.04	389.04	no	23		85%	0.306
2012	386.09	386.09	386.09	386.09	no	23		85%	0.304
2013	383.14	383.14	383.14	383.14	no	23		84%	0.301
2014	380.20	380.20	380.20	380.20	yes	23		84%	0.299